

CLAIMS

What is claimed is:

1 1. A folding device for producing a second longitudinal fold in products
2 of a rotary press, comprising:

3 a folding drum;

4 a folding-blade shaft having two ends, said folding-blade shaft being
5 rotatably mounted at each of said two ends in said folding drum, said folding-blade shaft
6 having at least two folding-blade carriers for holding folding blades;

7 a pair of bearings arranged in said folding drum, said ends of said folding-
8 blade shaft being mounted respectively in said folding drum by said pair of bearings;
9 and

10 at least one further bearing arranged in said folding drum between said
11 pair of bearings, wherein said folding-blade shaft is further rotatably supported in said
12 folding drum by said at least one further bearing between said ends of said folding-
13 blade shaft.

1 2. The folding device of claim 1, wherein said at least one further
2 bearing is arranged between adjacent ones of said at least two folding-blade carriers.

1 3. The folding device of claim 1, wherein said pair of bearings and
2 said at least one further bearing comprise self-aligning roller bearings.

1 4. The folding device of claim 3, wherein said pair of bearings and
2 said at least one further bearing are operatively arranged for receiving lubricating
3 medium from a central lubricating-medium supply.

1 5. The folding device of claim 1, wherein said pair of bearings and
2 said at least one further bearing are operatively arranged for receiving lubricating
3 medium from a central lubricating-medium supply.

1 6. The folding device of claim 1, further comprising a drive pinion
2 arranged on said folding-blade shaft, said drive pinion being connected to said folding-
3 blade shaft with a form-fitting connection by serrated toothing.

1 7. The folding device of claim 1, further comprising a carrier arranged
2 in said folding drum, said at least one further bearing being supported on said carrier,
3 wherein said carrier has a small material thickness in a longitudinal direction of said
4 folding device and a large area extending approximately over the entire cross section of
5 an interior of said folding drum in a transverse direction of said folding device.

1 8. The folding device of claim 7, wherein said carrier is connected to
2 said folding drum by threaded connectors.

1 9. The folding device of claim 1, wherein said folding blades are
2 spaced apart from one another in a region proximate said carrier by a distance smaller
3 than 10 millimeters.